

Title (en)

Optomechanical microdevice and optomechanical microdeflector using the same

Title (de)

Optomechanische Mikrovorrichtung und ihre optomechanischen Anwendung in einem Mikro-Strahlblenker

Title (fr)

Microdispositif optomécanique, et application à un microdéflecteur optomécanique

Publication

EP 0802439 B1 20020731 (FR)

Application

EP 97400857 A 19970416

Priority

FR 9604861 A 19960418

Abstract (en)

[origin: EP0802439A1] The device has a fixed part or substrate (2) whose surface (3) defines the plane (x,y) in which its moving part can be actuated to deflect a beam of light. The microlens (4) is attached to the fixed part by preferably two arms (6,8) which can be displaced in the y direction by means of pairs of electrodes (12,14;16,18). The beam is introduced through a micro-waveguide (10) in the x direction. The displacement can be effected alternatively by a magnetic field perpendicular to the plane, exerting a Laplacian force on conductors of current along the arms.

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